

NOTE	Audio signal is recorded in L-channel.											Relative value with respect to full range.	Necessary for symchronization.
UNIT	Channel	kbps (kilobits/sec.)	KHz	K baud (kilo symbols /sec.)	bits/symbol					msec	msec	dВ	puoses
DESIGN	æ	12.6	6.30	3.15	4	4 - bit gray code	16 DPSK	Synchronous detection	Synchronous nibble	0	. 200	-6.0 to -12.0	2.0 ≤
ITEM	Recording channel for modulated signal	Bit rate	Carrier frequency	Symbol Velocity	Bits of Symbol	Coding	Modulation	Demodulation	Synchronization	Delay time of audio signal in recording	Delay time of audio signal in playback	Recording Level	Silent period

Fig. 2

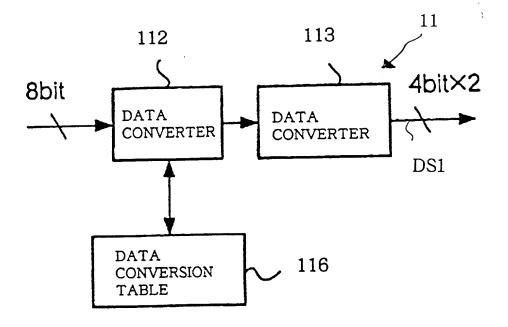


Fig. 3

BIT STRING OF STATUS BYTE BEFORE DATA CONVERSION	BIT STRING AFTER DATA CONVERSION	DEFINITION OF STATUS BYTE			
CO	C40	PROGRAM CHANGE AT CHANNEL 0			
C1	C41	PROGRAM CHANGE AT CHANNEL 1			
C2	C42	PROGRAM CHANGE AT CHANNEL 2			
:	:	:			
CF	C4F	PROGRAM CHANGE AT CHANNEL F			
FO	C0	EXCLUSIVE			
F1	Ċ1	TIME CODE QUARTER FRAME			
F2	C2	SONG POSITION POINTER			
F3	C3	SONG SELECT			
F4	C54	(NOT DEFINED)			
F5	C55	(NOT DEFINED)			
F6	C6	TUNE REQUEST			
F7	C7	END OF EXCLUSIVE			
F8	C8	TIMING CLOCK			
F9	C9	(NOT DEFINED)			
FA	CA	START			
FB	СВ	CONTINUE			
FC	CC	STOP			
FD	CD	(NOT DEFINED)			
FE	CE	ACTIVE SENSING			
FF	CF	SYSTEM REQUEST			

Fig. 4

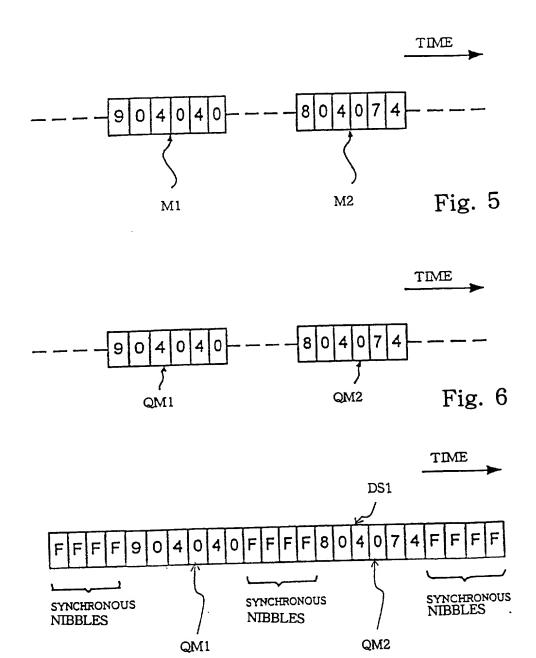
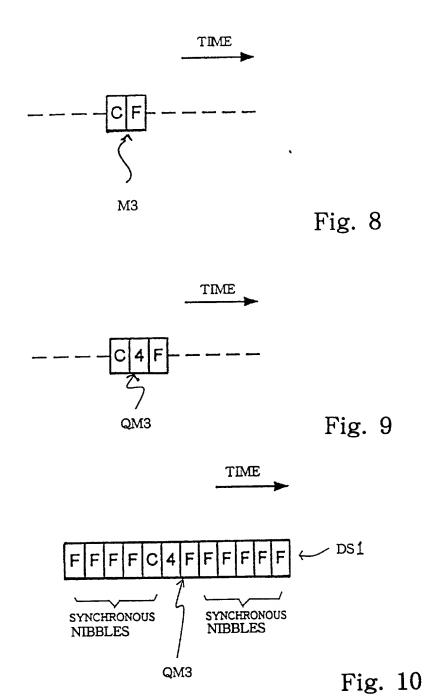
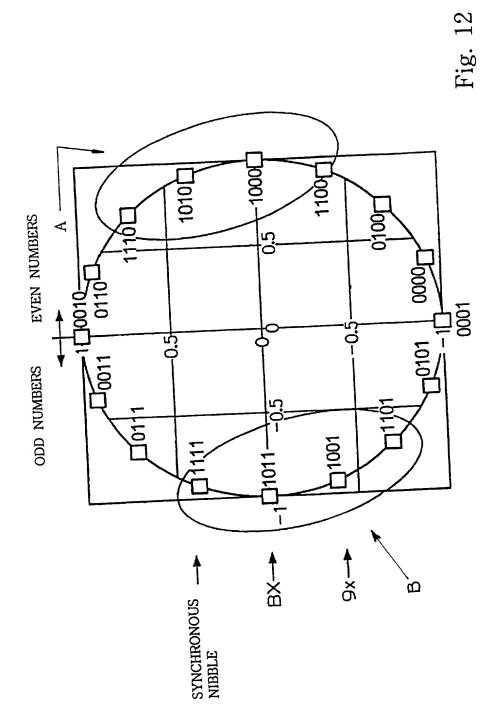


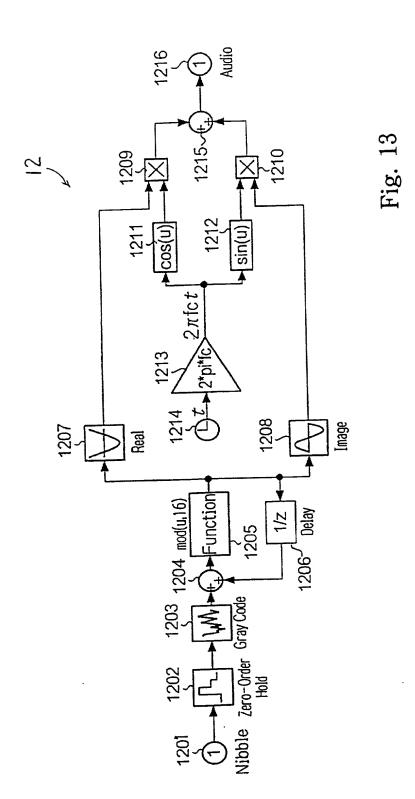
Fig. 7

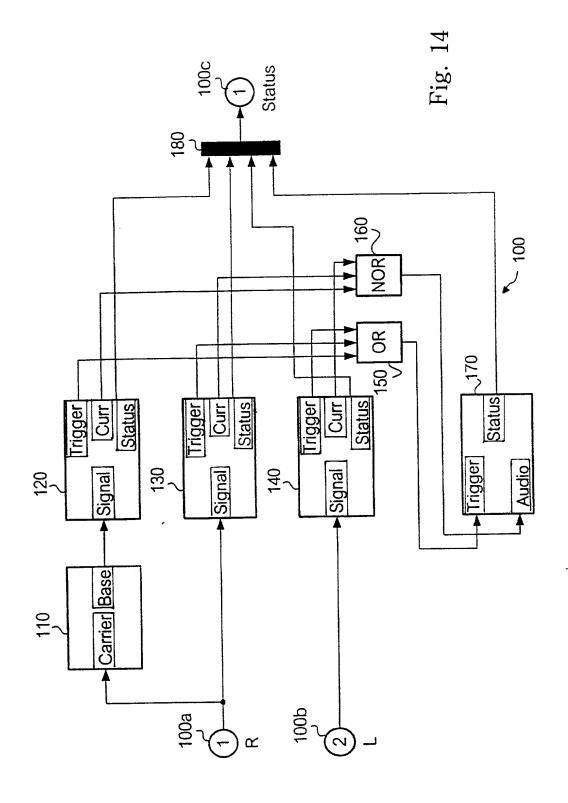


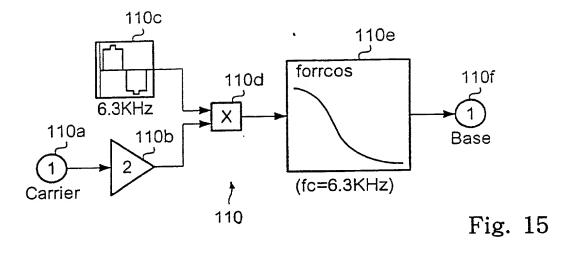
Gray Code	POSITION	PHASE	I - COMPONENT	Q - COMPONENT	
Data -	[Dec]	[rad]			
1000	0	0	1	0	
1010	010 1 0.39		0.92388	0.382683	
1110	2	0.785398	0.707107	0.707107	
0110	3	1.178097	0.382683	0.92388	
0010	4	1.570796	0	1	
0011	5	1.963495	-0.38268	0.92388	
0111	6	2.356194	-0.70711	0.707107	
1111	7	2.748894	-0.92388	0.382683	
1011	8	3.141593	-1	0	
1001	9	3.534292	-0.92388	-0.38268	
1101	10	3.926991	-0.70711	-0.70711	
0101	11	4.31969	-0.38268	-0.92388	
0001	12	4.712389	0	-1	
0000	13	5.105088	0.382683	-0.92388	
0100	14	5.497787	0.707107	-0.70711	
1100	15	5.890486	0.92388	-0.38268	

Fig. 11









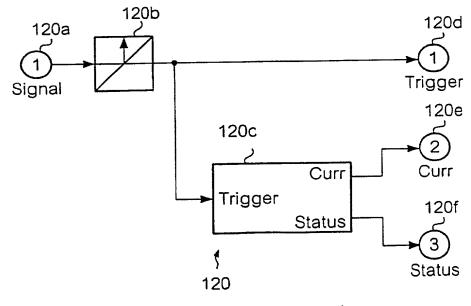
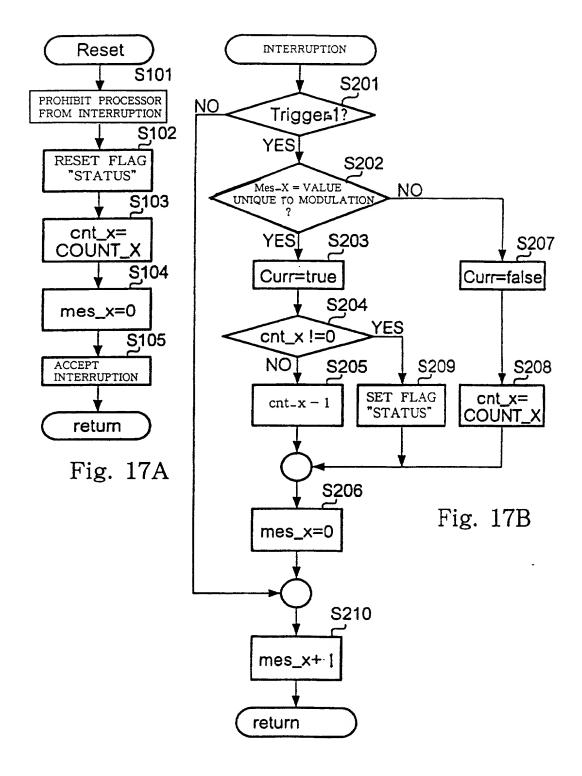
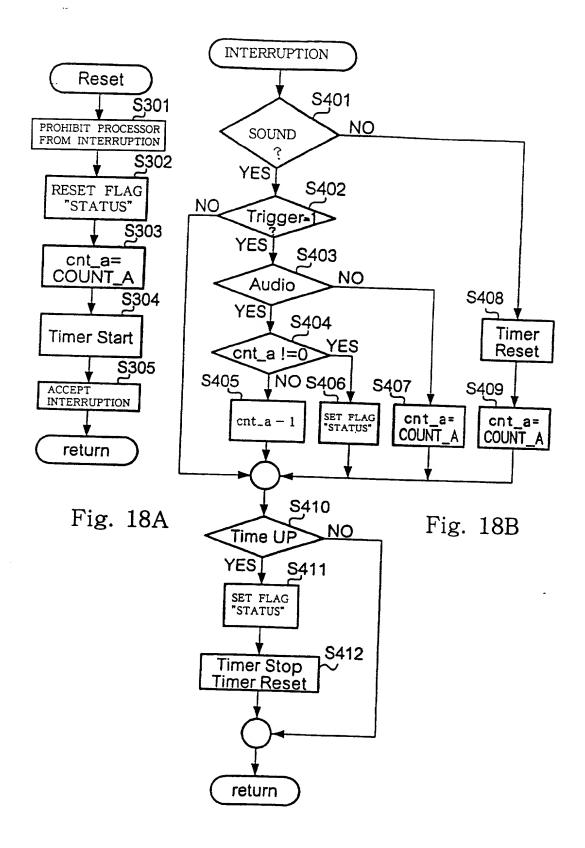
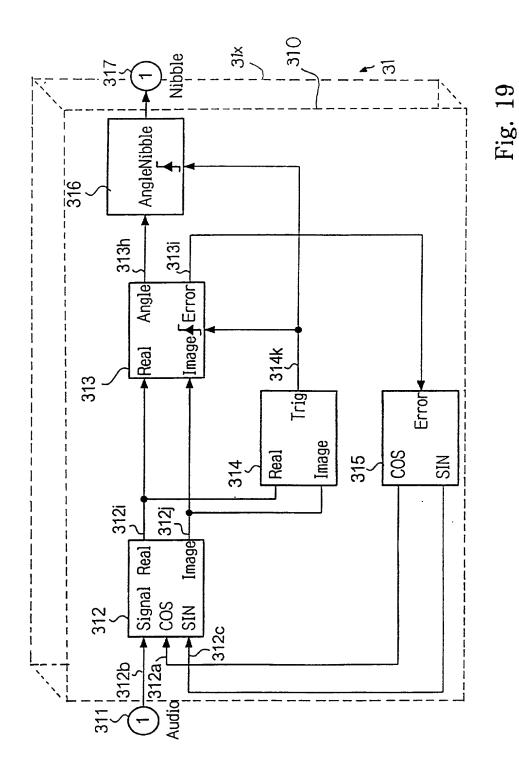
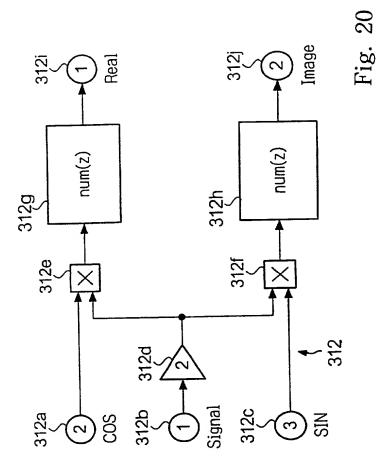


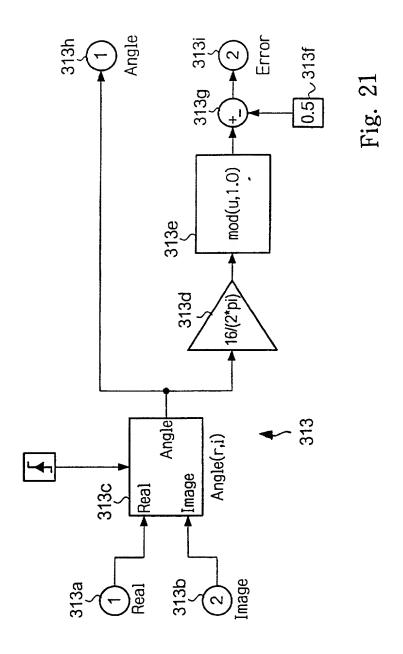
Fig. 16

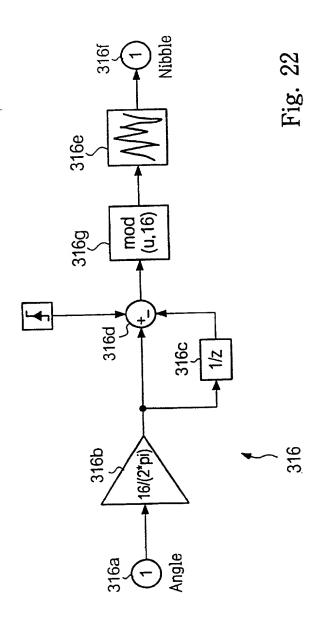


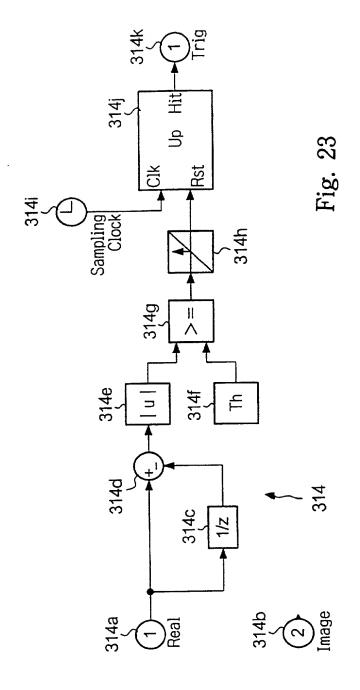


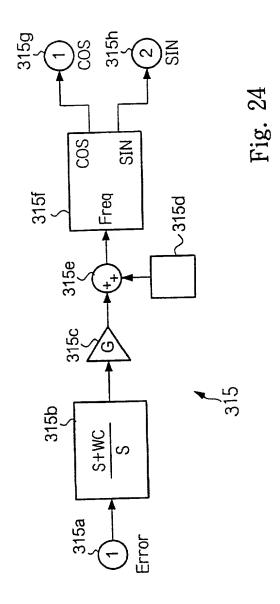












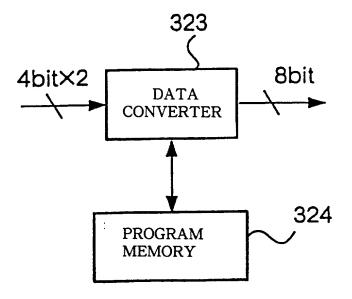


Fig. 25

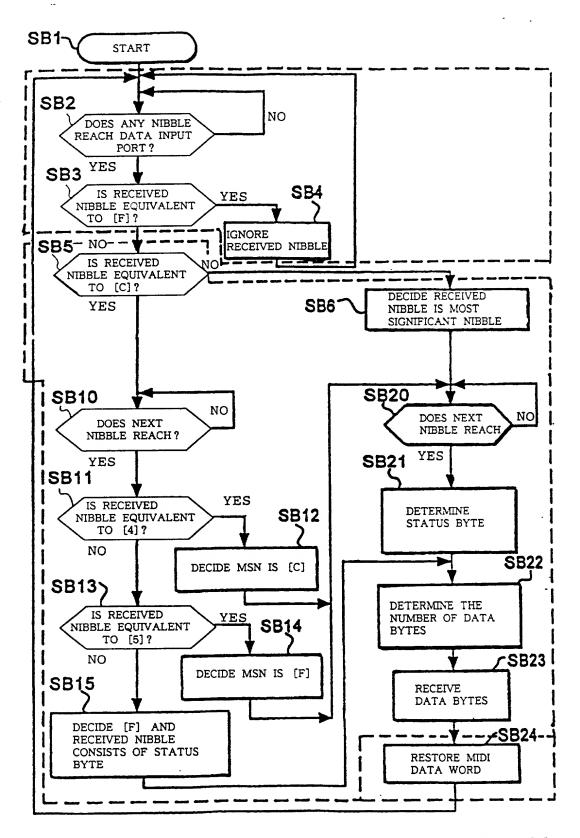
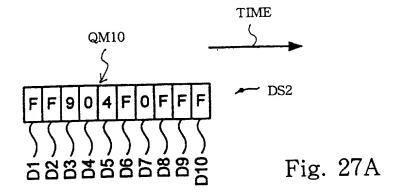
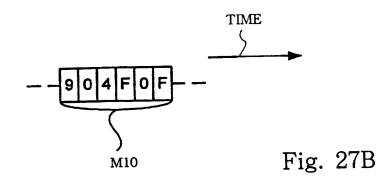
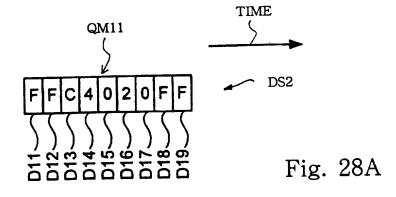
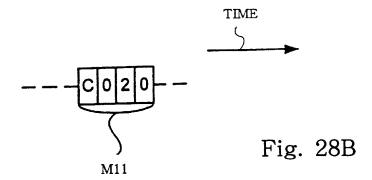


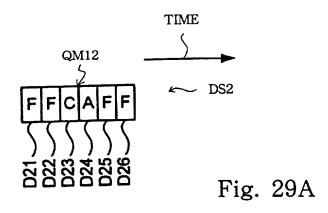
Fig. 26











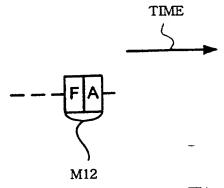
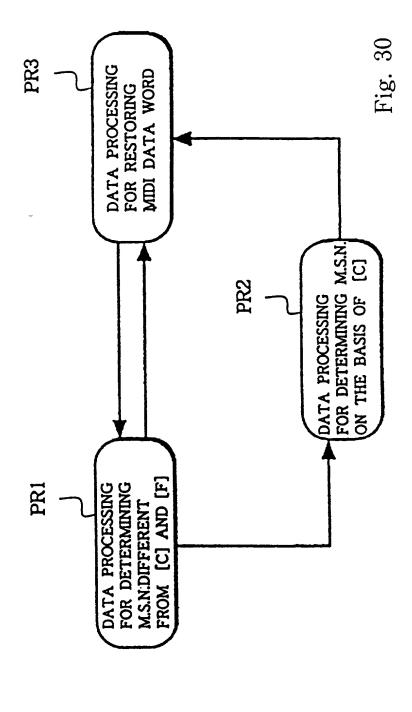


Fig. 29B



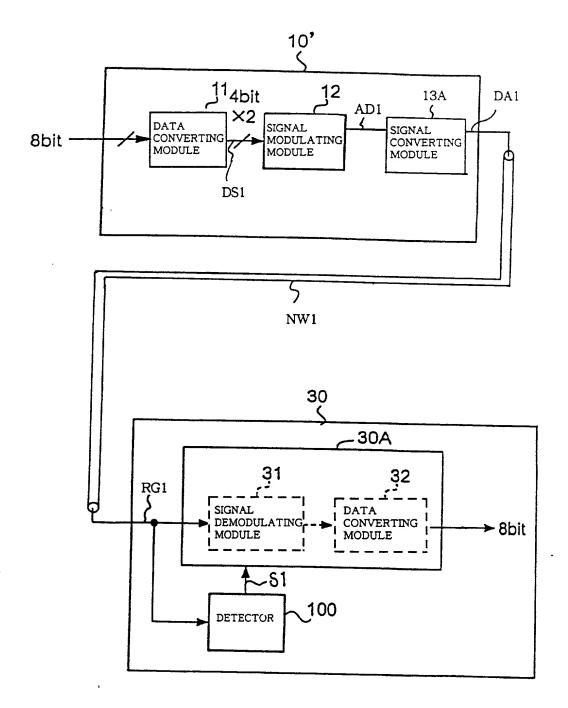


Fig. 31

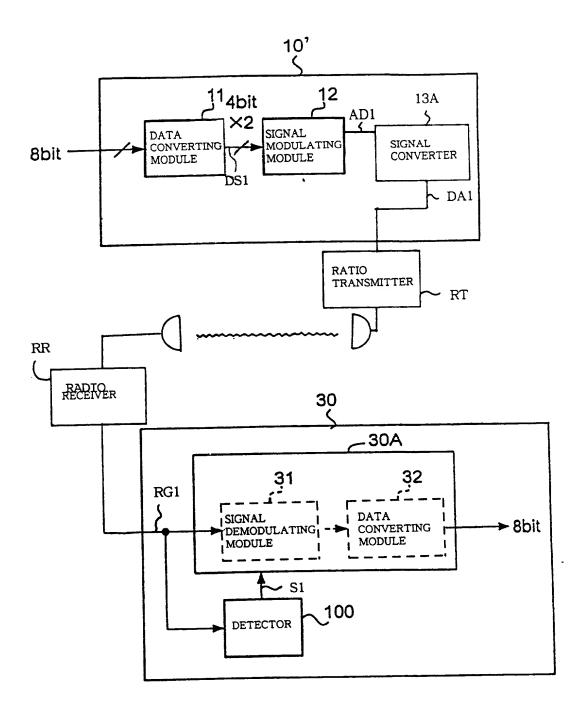


Fig. 32